Approved For Release 2008/02/28 : CIA-RDP78B03817A001000020029-1

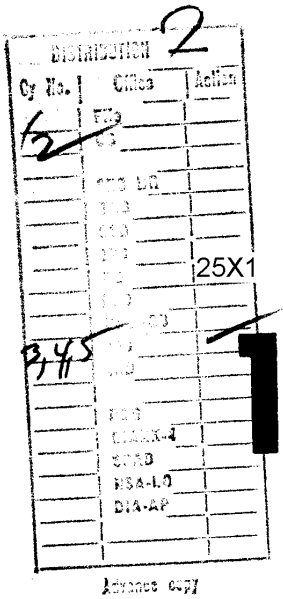
TOP SECRET

PRIORITY

Declassification Review by NGA/DoD

1967 DEC 22 01 58Z

OUT63911



P 220110Z
FM NPIC

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AFSSO PACAF
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T O P S E C R E T TTTTT [redacted] CITE NPIC 2568. 25X1
SSO SAC ALSO FOR 544 ARTW.
SUBJECT: CAMERA INFORMATION FOR MISSION 1102-1

1. THE MISSION UTILIZED TWO PAN CAMERAS, FOUR HORIZON CAMERAS, AND TWO STELLAR AND ONE INDEX CAMERA UNIT (DISIC).

2. CAMERA DATA:

A. FOCAL LENGTHS (MM)		PAN CAMERAS	PORT HORIZON	STAR HORIZON
		FWD 609.600	FWD 54.916	FWD 54.916
		AFT 609.625	AFT 54.797	AFT 54.889
FILTER	PAN FWD PRIMARY	W-25		
	ALTERNATE	SF09		
	PAN AFT PRIMARY	W-21		
	ALTERNATE	SF09		
	FWD STAR HOR	W-25		
	FWD PORT HOR	W-25		
	AFT STAR HOR	W-25		
	AFT PORT HOR	W-25		
APERTURE				
	STAR HOR	F 8.0		
	PORT HOR	F 6.3		

SLIT WIDTH (IN) POSITIONS	1	2	3	4	FAILSAFE
FWD	.215	.270	.340	.340	.340
AFT	.134	.170	.215	.270	.250

EXPOSURE (SEC) STAR HOR 1/100 PORT HOR 1/100
FILM FWD 3404 AND S0230 AFT 3404 AND S0230
LAST 2,000 FT LAST 2,500 FT.

DYNAMIC RESOLUTION (L/MM)

FWD	HIGH CONTRAST	213
FWD	LOW CONTRAST	139
AFT	HIGH CONTRAST	198
AFT	LOW CONTRAST	128

B. DISIC UNIT	PORT STELLAR	STBD-STELLAR	INDEX
FOCAL LENGTHS (MM)	76.313	75.994	77.022
FILTER (WRATTEN)	NONE	NONE	W-12

[redacted] 25X1

GROUP 1
Excluded from automatic downgrading and declassification

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EXPOSURE (SEC)	1.5	1.5	1/250 OR 1/500
FILM	3401 & 3400	3401 & 3400	3404

RESOLUTION

STELLAR RESOLUTION NOT AVAILABLE

INDEX (HI CONTRAST L/MM)

ANGLE OFF AXIS (DEG)	0	17	34
RADIAL	78	76	69
TANGENTIAL	77	68	51

UNIT NUMBER 4

3. LENS DISTORTION (PIN CUSHION) MM

A. MAIN UNITS	3	2	1	0	359	358	357
FWD UNIT	0	0	0	0	0	.001	.001
AFT UNIT	.002	.001	0	0	0	0	.001

B. HORIZON CAMERAS

	FWD		AFT	
RADIAL	PORT	STAR	PORT	STAR
10 DEGREES	02	.02	.01	.02
20 DEGREES	.06	.05	.03	.05
TANGENTIAL	.01	.018	.0288	.03

4. CAMERA ANGLES

A. ANGLE BETWEEN PAN CAMERAS 30 DEG 18.87 MIN

B. DEPRESSION ANGLE BETWEEN HORIZON AND PAN CAMERA.

FWD PORT	15 DEG 29.71 MIN
FWD STAR	15 DEG 28.97 MIN
AFT PORT	15 DEG 51.94 MIN
AFT STAR	15 DEG 07.12 MIN

C. ANGLE BETWEEN STELLAR AND INDEX CAMERAS.

STARBOARD STELLAR AND INDEX	-100 DEG 01 MIN 46 SEC
PORT STELLAR AND INDEX	99 DEG 59 MIN 09 SEC

5. TIMING MARKS

FREQUENCY MARKS WILL APPEAR ON THE FILM AT A RATE OF 200 CYCLES PER SECOND

6. IMAGE MOTION COMPENSATION DATA

PASSES	REF LEVEL	AMP LEVEL
1D THRU 32D	9	13
37D THRU 64D	9	14
71D	8	15
72D THRU 75D	9	14

FOR ALL PASSES PRIMARY PERIOD 3217 SEC, SECONDARY PERIOD 2622, SECONDARY RAMP FACTOR .048950.

7. PROGRAM TIME DATA

PASS	CAMERA ON TIME (ZULU TIME) DAY	HR	MIN	SEC	PROGRAM ON TIME UP RAMP SEC	PROGRAM DURATION SEC
1D	09	23	53	10	1056	35
5D1	10	05	47	47	1096	116
5D2	10	05	51	06	1295	77
6D1	10	07	15	13	1032	102
6D2	10	07	18	18	1217	182
7D	10	08	45	48	1159	62
8D	10	10	16	32	1293	122
9AE	10	11	21	08	----	----
9D	10	11	54	11	1841	116
10D	10	13	22	21	1823	112
11D	10	14	49	10	1724	77
13D	10	17	49	41	1939	127
15D	10	20	42	11	1669	81
16D	10	22	06	49	1429	56
21D	11	05	24	01	1085	303
22D	11	06	52	53	1102	642

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24D	11	09	51	28	1189	208
25D1	11	11	24	04	1432	162
25D2	11	11	30	14	1744	59
26D	11	13	00	00	1874	107
30D	11	18	55	48	1973	137
32D	11	21	44	23	1466	95
37D	12	05	03	24	1255	159
38D	12	06	49	36	2318	141
39D1	12	08	01	22	1315	55
39D2	12	08	02	47	1401	117
39D3	12	08	05	46	1508	58
40D	12	09	30	54	1379	41
41D	12	11	07	32	1868	43
42D	12	12	38	12	2000	37
46D	12	18	37	36	2337	106
47D	12	19	57	50	1839	95
48D	12	21	20	59	1513	106
53D	13	04	40	58	1340	74
54D1	13	06	12	05	1494	26
54D2	13	06	13	48	1598	168
55D	13	07	41	50	1568	121
56D	13	09	04	22	1206	73
57D	13	10	32	06	1158	28
58D	13	12	08	26	1626	171
59D	13	13	36	46	1615	60
64D	13	20	57	08	1485	26
71D	14	07	17	00	1521	210
72D1	14	08	44	33	1417	33
72D2	14	08	46	56	1560	95
74D1	14	11	45	25	1635	168
74D2	14	11	51	25	1995	91
75D	14	13	13	46	1621	36

8. TIME CORRELATION (MILLISECONDS)

PASS	CLOCK TIME	SYSTEM TIME	DIFFERENCE

9D	388341.648	40617.5043	.002
16D	427505.979	79781.8328	.003
25D	473487.605	39363.4562	.002
32D	512541.431	78417.2803	.001
41D	21551.968	37898.7273	.001
48D	60676.972	77023.7299	.001
58D	106590.102	36536.8586	.001
65D	151069.451	81016.2066	.001
73D	191622.777	35169.5319	.001

NOTE:ALL "DIFFERENCE" VALUES ARE PLUS.

GP-1

T O P S E C R E T

END OF MESSAGE

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